

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 194 (WOODSBORO PIKE) AND GLADE BOULEVARD IN FREDERICK COUNTY, MARYLAND. MD 194 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

MODIFICATION TO INTERSECTION INCLUDE GEOMETRIC IMPROVEMENTS, AND AN EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR THE NORTHBOUND MD 194 MOVEMENT.

INTERSECTION OPERATION

THE EXISTING CABINET/CONTROLLER WILL BE UTILIZED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 194 (WOODSBORO PIKE). THE MD 194 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE GLADE BOULEVARD MOVEMENTS WILL OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE SOUTH LEG OF THE INTERSECTION.

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MR. RICHARD L. DUFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP.
CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

3. APS WILL FUNCTION AS FOLLOWS:

- FOR MD 194 (WOODSBORO PIKE)
- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS WOODSBORO AT GLADE. WAIT"
 - WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

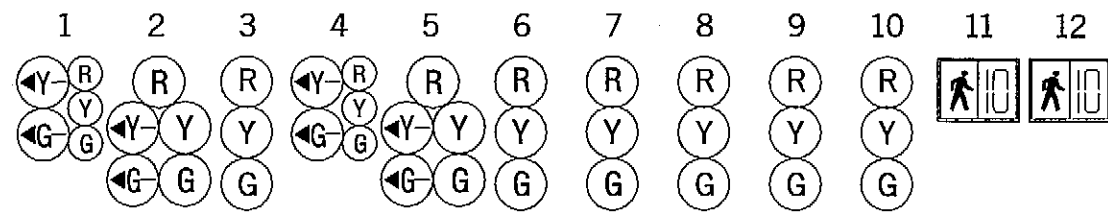
EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION.
NONE.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

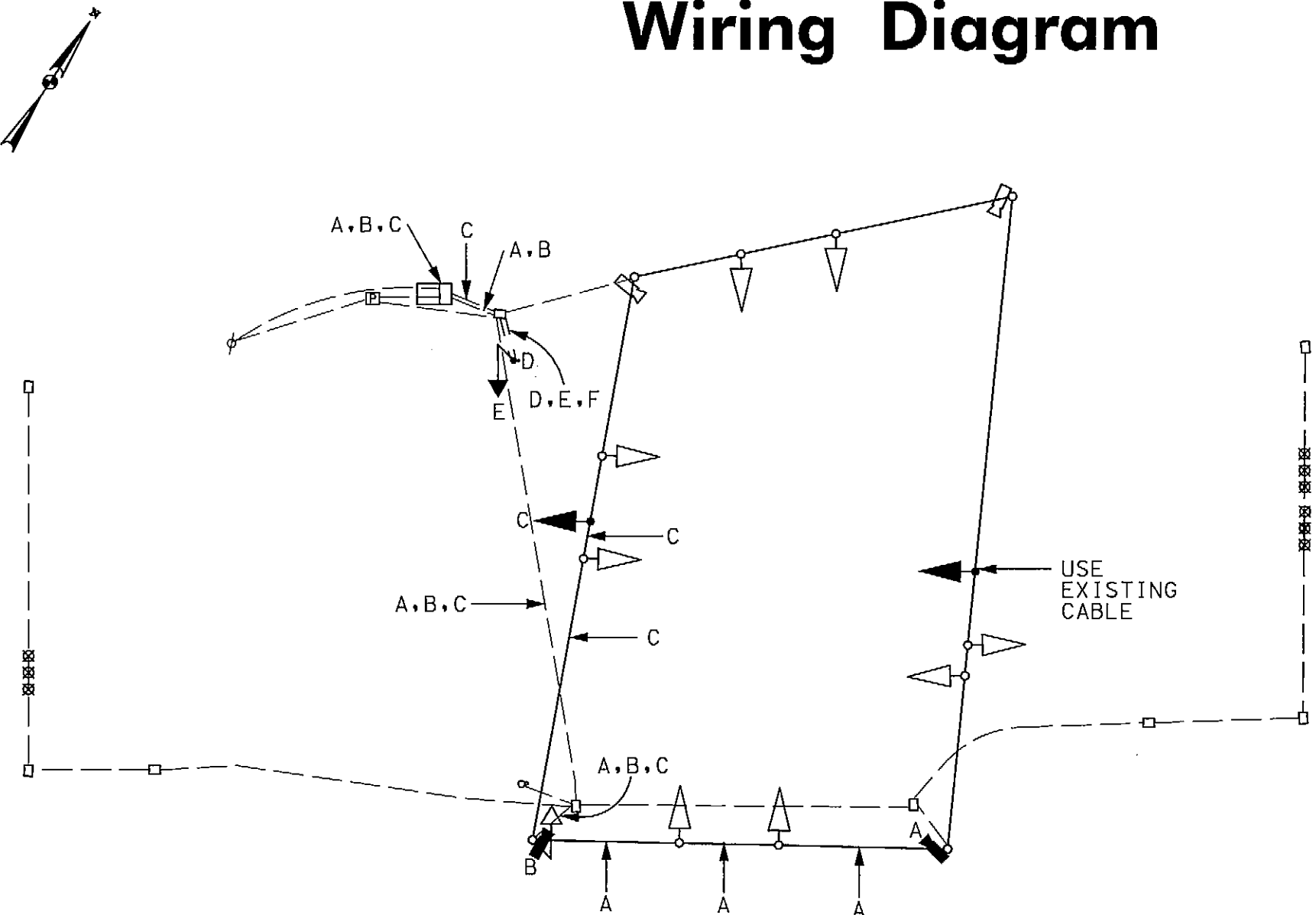
QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
1	EA	10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE
2	EA	VIDEO DETECTOR CAMERA
395	LF	VIDEO DETECTOR CAMERA CABLE
1	EA	8/12 IN. 5-SECTION LED SIGNAL HEAD - SPAN WIRE
1	EA	12 IN. 5-SECTION LED SIGNAL HEAD - SPAN WIRE
1	EA	30 IN.X 36 IN. R3-5 REGULATORY SIGN - SPAN WIRE
1	EA	30 IN.X 36 IN. R3-6 REGULATORY SIGN - SPAN WIRE
1	CY	TEST PIT EXCAVATION
225	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
15	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
10	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
.7	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
135	LF	12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - CROSSWALK
35	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
1	EA	RELOCATE EXISTING SIGN - GROUND
55	LF	RELOCATE EXISTING TRAFFIC SIGNAL CABLES. (1 AT APPROX. 25 LF., 1 AT APPROX. 30 LF.)
130	LF	REMOVE EXISTING PAVEMENT MARKING BY GRINDING.
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT
LUMP SUM	LS	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT

Phase Chart



PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	DW	DW	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R	R	R	DW	DW	
1 CHANGE	←YG	←YG	G	R	R	R	R	R	R	R	DW	DW	
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	DW	DW	
5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	DW	DW	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	DW	DW	
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
PHASE ALT 4 AND 8	R	R	R	R	R	R	G	G	G	G	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	
ALT 4 AND 8	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

Wiring Diagram



- KEY
- A } VIDEO DETECTOR CABLE
 - B }
 - C } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
 - D } EX. 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
 - E } EX. 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
 - F } BARE COPPER GROUND WIRE (NO. 6 A.W.G.)



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 194 (WOODSBORO PIKE) AND GLADE BOULEVARD
WALKERSVILLE, MARYLAND

GENERAL INFORMATION PLAN

SCALE NA DATE September 20, 2010 CONTRACT NO. BW996M82

DESIGNED BY F. BROWNLEY COUNTY FREDERICK
DRAWN BY F. BROWNLEY LOGMILE 10019402.83
CHECKED BY TMS NO. K421
F.A.P. NO. NA TOD NO. NA

TS NO. 2064F-GI DRAWING **GI-01** OF 01 SHEET NO. 02 OF 03

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